

10/589,782

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FILE COVERS 1907 - 11 Sep 2008 VOL 149 ISS 11

FILE LAST UPDATED: 10 Sep 2008 (20080910/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

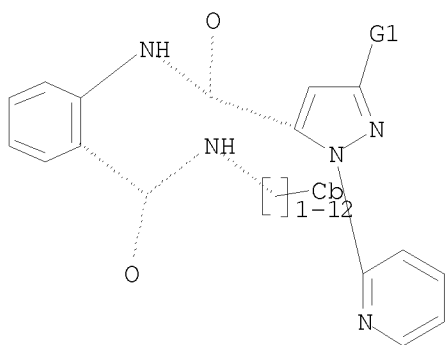
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=> d que

L1

STR



G1 X, Ak, CN, O

Structure attributes must be viewed using STN Express query preparation.

L2 727 SEA FILE=REGISTRY SSS FUL L1

L3 15 SEA FILE=CAPLUS L2

=> d l3 1-15 ibib abs hit

L3 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:831355 CAPLUS

DOCUMENT NUMBER: 149:152831

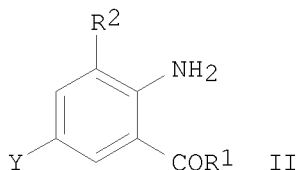
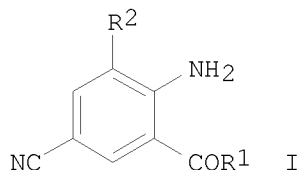
TITLE: Process for preparation of 2-amino-5-cyanobenzamides from the corresponding 5-halo compounds using metal cyanides in the presence of cuprous salts, iodides,

and amines.  
 INVENTOR(S): Annis, Gary David; Bruening, Joerg; Currie, Martin  
 James; Dumas, Donald Joseph; Shapiro, Rafael  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours and Company, USA  
 SOURCE: PCT Int. Appl., 63 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008082502	A2	20080710	WO 2007-US25800	20071218
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: US 2006-876394P P 20061221  
 US 2007-902465P P 20070221

OTHER SOURCE(S): CASREACT 149:152831; MARPAT 149:152831  
 GI



AB Title compds. (I; R<sub>1</sub> = NHR<sub>3</sub>, OR<sub>4</sub>; R<sub>2</sub> = Me, Cl; R<sub>3</sub> = H, alkyl, cyclopropyl, cyclopropylcyclopropyl, cyclopropylmethyl, methylcyclopropyl; R<sub>4</sub> = H, alkyl), were prepared by treatment of the corresponding halides (II; Y = Br, Cl; R<sub>1</sub>, R<sub>2</sub> as above) with a metal cyanide in the presence of a Cu(I) salt, an iodide salt, and R<sub>5</sub>HNCR<sub>6</sub>R<sub>7</sub>(CR<sub>8</sub>R<sub>9</sub>)<sub>n</sub>CR<sub>10</sub>R<sub>11</sub>XR<sub>12</sub> (X = NR<sub>13</sub>, O; n = 0, 1; R<sub>5</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>11</sub>, R<sub>12</sub> = H, alkyl; R<sub>6</sub>, R<sub>10</sub> = H, alkyl, Ph; R<sub>13</sub> = H, Me; n = 0, 1). Thus, 2-amino-5-bromo-N,3-dimethylbenzamide (preparation given), NaCN, CuI, and N,N'-dimethylethylenediamine were heated in xylenes at 140° for 4.5 h to give 2-amino-5-cyano-N,3-dimethylbenzamide.

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RL: IMF (Industrial manufacture); PRPH (Prophetic); SPN (Synthetic preparation); PREP (Preparation)

(prepn of aminocyanobenzamides from the corresponding halo compds. using metal cyanides in the presence of cuprous salts, iodides, and amines)

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RL: IMF (Industrial manufacture); PRPH (Prophetic); SPN (Synthetic preparation); PREP (Preparation)

(prepn of aminocyanobenzamides from the corresponding halo compds. using metal cyanides in the presence of cuprous salts, iodides, and amines)

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1042429-01-5P	1042429-02-6P	1042429-03-7P	1042429-04-8P
1042429-06-0P	1042429-07-1P	1042429-08-2P	1042429-09-3P
1042429-10-6P	1042429-11-7P	1042429-12-8P	1042429-14-0P
1042429-15-1P	1042429-16-2P	1042429-19-5P	1042429-22-0P
1042429-23-1P	1042429-25-3P	1042429-27-5P	1042429-29-7P
1042429-30-0P	1042429-31-1P	1042429-32-2P	1042429-35-5P
1042429-37-7P	1042429-38-8P	1042429-39-9P	1042429-40-2P
1042429-41-3P	1042429-42-4P	1042429-43-5P	1042429-44-6P
1042429-47-9P	1042429-49-1P	1042429-50-4P	1042429-52-6P

RL: IMF (Industrial manufacture); PRPH (Prophetic); SPN (Synthetic preparation); PREP (Preparation)

(prepn of aminocyanobenzamides from the corresponding halo compds. using metal cyanides in the presence of cuprous salts, iodides, and amines)

L3 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:735755 CAPLUS

DOCUMENT NUMBER: 149:47043

TITLE: Synergistic insecticidal compositions comprising an anthranilamide derivative

INVENTOR(S): Koyanagi, Toru; Morita, Masayuki; Yoneda, Tetsuo; Ueda, Tsuyoshi; Kiriyaama, Kazuhisa; Hamamoto, Taku

PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan

SOURCE: PCT Int. Appl., 82pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008072783	A1	20080619	WO 2007-JP74372	20071212
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

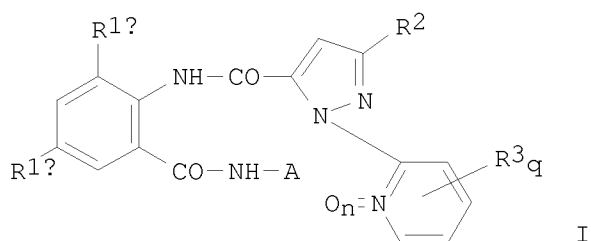
PRIORITY APPLN. INFO.:

JP 2006-336585 A 20061214

JP 2007-105029 A 20070412

OTHER SOURCE(S): MARPAT 149:47043

GI



AB Synergistic insecticidal and ectoparasitocidal compns. contain a anthranilamide derivs. I [R1a, R1b = halo; R2, R3 = halo, alkyl, haloalkyl, alkoxy, haloalkoxy or cyano; A = alkyl substituted by Y; Y = (un)substituted C3-4 cycloalkyl; n = 0 or 1; q = 0, 1-4] and another pesticide.

REFERENCE COUNT:

7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 1031756-99-6 1031757-01-3 1031757-03-5  
 1031757-05-7 1031757-07-9 1031757-10-4  
 1031757-14-8 1031757-17-1 1031757-19-3  
 1031757-21-7 1031757-23-9 1031757-26-2  
 1031757-28-4 1031757-30-8 1031757-32-0

1031757-34-2 1031757-36-4 1031757-38-6  
 1031757-41-1 1031757-43-3 1031757-45-5  
 1031757-47-7 1031757-49-9 1031757-51-3  
 1031757-54-6 1031757-56-8 1031757-58-0  
 1031757-60-4 1031757-62-6 1031757-64-8  
 1031757-66-0 1031757-69-3 1031757-71-7  
 1031757-74-0 1031757-76-2 1031757-78-4  
 1031757-80-8 1031757-82-0 1031757-84-2  
 1031757-86-4 1031757-88-6 1031757-90-0  
 1031757-92-2 1031757-94-4

RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL  
 (Biological study); USES (Uses)

(synergistic insecticidal compn)

IT 112410-23-8D, Tebufenozide, mixts. with anthranilamide derivs.  
 112839-32-4D, Furconazole-cis, mixts. with anthranilamide derivs.  
 114369-43-6D, Fenbuconazole, mixts. with anthranilamide derivs.  
 115852-48-7D, Fenoxanil, mixts. with anthranilamide derivs.  
 116255-48-2D, Bromuconazole, mixts. with anthranilamide derivs.  
 116714-46-6D, Novaluron, mixts. with anthranilamide derivs.  
 117428-22-5D, Picoxystrobin, mixts. with anthranilamide derivs.  
 118134-30-8D, Spiroxamine, mixts. with anthranilamide derivs.  
 119168-77-3D, Tebufenpyrad, mixts. with anthranilamide derivs.  
 119446-68-3D, Difenconazole, mixts. with anthranilamide derivs.  
 119544-94-4D, Protrifenbute, mixts. with anthranilamide derivs.  
 119791-41-2D, Emamectin, mixts. with anthranilamide derivs.  
 120068-37-3D, Fipronil, mixts. with anthranilamide derivs. 120116-88-3D,  
 Cyazofamid, mixts. with anthranilamide derivs. 120928-09-8D, Fenazaquin,  
 mixts. with anthranilamide derivs. 121451-02-3D, Noviflumuron, mixts.  
 with anthranilamide derivs. 121552-61-2D, Cyprodinil, mixts. with  
 anthranilamide derivs. 122453-73-0D, Chlorfenapyr, mixts. with  
 anthranilamide derivs. 123312-89-0D, Pymetrozine, mixts. with  
 anthranilamide derivs. 124495-18-7D, Quinoxifen, mixts. with  
 anthranilamide derivs. 125116-23-6D, Metconazole, mixts. with  
 anthranilamide derivs. 125225-28-7D, Ipconazole, mixts. with  
 anthranilamide derivs. 126069-54-3D, Phosphocarb, mixts. with  
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 anthranilamide derivs. 129558-76-5D, Tolfenpyrad, mixts. with  
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 anthranilamide derivs. 131860-33-8D, Azoxystrobin, mixts. with  
 anthranilamide derivs. 133855-98-8D, Epoxiconazole, mixts. with  
 anthranilamide derivs. 134098-61-6D, Fenpyroximate, mixts. with  
 anthranilamide derivs. 135410-20-7D, Acetamiprid, mixts. with  
 anthranilamide derivs. 136426-54-5D, Fluquinconazole, mixts. with  
 anthranilamide derivs. 138261-41-3D, Imidacloprid, mixts. with  
 anthranilamide derivs. 139920-32-4D, Diclocymet, mixts. with  
 anthranilamide derivs. 139968-49-3D, Metaflumizone, mixts. with  
 anthranilamide derivs. 140163-89-9D, Imicyafos, mixts. with  
 anthranilamide derivs. 140923-17-7D, Iprovalicarb, mixts. with  
 anthranilamide derivs. 141517-21-7D, Trifloxystrobin, mixts. with  
 anthranilamide derivs. 143390-89-0D, Kresoximmethyl, mixts. with  
 anthranilamide derivs. 143807-66-3D, Chromafenozide, mixts. with  
 anthranilamide derivs. 148477-71-8D, Spirodiclofen, mixts. with  
 anthranilamide derivs. 149508-90-7D, Sipconazole, mixts. with  
 anthranilamide derivs. 149877-41-8D, Bifenazate, mixts. with  
 anthranilamide derivs. 149961-52-4D, Dimoxystrobin, mixts. with  
 anthranilamide derivs. 150824-47-8D, Nitenpyram, mixts. with  
 anthranilamide derivs. 153233-91-1D, Etoxazole, mixts. with  
 anthranilamide derivs. 153719-23-4D, Thiamethoxam, mixts. with

anthranilamide derivs. 155569-91-8D, Emamectin benzoate, mixts. with  
 anthranilamide derivs. 156052-68-5D, Zoxamide, mixts. with  
 anthranilamide derivs. 158062-67-0D, Flonicamid, mixts. with  
 anthranilamide derivs. 161050-58-4D, Methoxyfenozide, mixts. with  
 anthranilamide derivs. 161326-34-7D, Fenamidone, mixts. with  
 anthranilamide derivs. 162650-77-3D, Ethaboxam, mixts. with  
 anthranilamide derivs. 165252-70-0D, Dinotefuran, mixts. with  
 anthranilamide derivs. 168316-95-8D, Spinosad, mixts. with  
 anthranilamide derivs. 170015-32-4D, Flufenerim, mixts. with  
 anthranilamide derivs. 173584-44-6D, Indoxacarb, mixts. with  
 anthranilamide derivs. 174212-12-5D, Oxpoconazole fumarate, mixts. with  
 anthranilamide derivs. 175013-18-0D, Pyraclostrobin, mixts. with  
 anthranilamide derivs. 175217-20-6D, Silthiopham, mixts. with  
 anthranilamide derivs. 178928-70-6D, Prothioconazole, mixts. with  
 anthranilamide derivs. 179101-81-6D, Pyridalyl, mixts. with  
 anthranilamide derivs. 180409-60-3D, Cyflufenamid, mixts. with  
 anthranilamide derivs. 181587-01-9D, Ethiprole, mixts. with  
 anthranilamide derivs. 182916-02-5D, Metominofen, mixts. with  
 anthranilamide derivs. 183675-82-3D, MTF-753, mixts. with anthranilamide  
 derivs. 188425-85-6D, Boscalid, mixts. with anthranilamide derivs.  
 189278-12-4D, Proquinazid, mixts. with anthranilamide derivs.  
 203313-25-1D, Spirotetramat, mixts. with anthranilamide derivs.  
 210880-92-5D, Clothianidin, mixts. with anthranilamide derivs.  
 211867-47-9D, Flumorph, mixts. with anthranilamide derivs. 220899-03-6D,  
 Metrafenone, mixts. with anthranilamide derivs. 223419-20-3D,  
 Profluthrin, mixts. with anthranilamide derivs. 223580-51-6D, Tiadinil,  
 mixts. with anthranilamide derivs. 229977-93-9D, Fluacrypyrim, mixts.  
 with anthranilamide derivs. 240494-70-6D, ,Metofluthrin, mixts. with  
 anthranilamide derivs. 248593-16-0D, Orysastrobin, mixts. with  
 anthranilamide derivs. 272451-65-7D, Flubendiamide, mixts. with  
 anthranilamide derivs. 283594-90-1D, Spiromesifen, mixts. with  
 anthranilamide derivs. 315208-17-4D, Pyrafluprole, mixts. with  
 anthranilamide derivs. 337458-27-2D, Pyrifluquinazon, mixts. with  
 anthranilamide derivs. 348635-87-0D, Amisulbrom, mixts. with  
 anthranilamide derivs. 361377-29-9D, Fluoxastrobin, mixts. with  
 anthranilamide derivs. 394730-71-3D, Pyriprole, mixts. with  
 anthranilamide derivs. 400882-07-7D, Cyflumetofen, mixts. with  
 anthranilamide derivs. 413615-35-7D, Benthiavalicarb-, mixts. with  
 anthranilamide derivs. 500008-45-7D, Chlorantraniliprole, mixts. with  
 anthranilamide derivs. 560121-52-0D, Cyenopyrafen, mixts. with  
 anthranilamide derivs. 863549-51-3D, Lepimectin, mixts. with  
 anthranilamide derivs. 935545-74-7D, DE 175, mixts. with anthranilamide  
 derivs. 937279-54-4D, HGW 86, mixts. with anthranilamide derivs.  
 946494-18-4D, UBF 307, mixts. with anthranilamide derivs. 946494-19-5D,  
 KIF 7767, mixts. with anthranilamide derivs. 946494-20-8D, Syngenta  
 446510, mixts. with anthranilamide derivs. 1031756-98-5D, mixts.  
 containing 1031757-98-8D, mixts. containing 1031758-00-5D,  
 mixts. containing 1032110-39-6D, BCM 062, mixts. with anthranilamide derivs.  
 1032111-18-4D, BCM 061, mixts. with anthranilamide derivs.  
 1032111-42-4D, BCF 051, mixts. with anthranilamide derivs.  
 RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (synergistic insecticidal compns.)

L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:734496 CAPLUS

DOCUMENT NUMBER: 149:79593

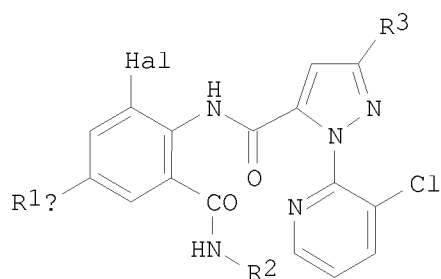
TITLE: Process for production of anthranilamide compound

INVENTOR(S): Koyanagi, Toru; Yamamoto, Kazuhiro; Yoneda, Tetsuo;  
 Kanbayashi, Shigehisa; Tanimura, Toyoshi; Taguchi,

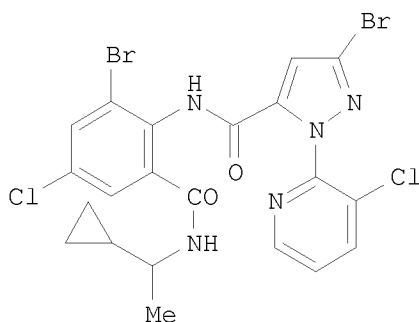


PATENT ASSIGNEE(S): Yohei; Yoshida, Tatsunori  
 SOURCE: Ishihara Sangyo Kaisha, Ltd., Japan  
 PCT Int. Appl., 95pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008072745	A1	20080619	WO 2007-JP74169	20071214
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			JP 2006-339100	A 20061215
			JP 2007-152718	A 20070608
OTHER SOURCE(S):		MARPAT 149:79593		
GI				



I



II

AB Disclosed is a process for producing a specific anthranilamide compound or a salt thereof. Specifically disclosed is a process for producing an anthranilamide compound represented by the formula I: [wherein R1a and R3 independently represent a halogen or a haloalkyl; R2 represents a cyclopropylalkyl or a cyclobutylalkyl; and Hal represents a chlorine atom or a bromine atom] or a salt thereof, which comprises the step of selectively halogenating a compound represented by the formula I: [wherein R1a, R2 and R3 are as defined above, Hal = H]. For example, II was provided in a multi-step synthesis starting from the reaction of Et 2-furoylpyruvate with 3-chloro-2-hydrazylpyridine.

REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 1621-24-5P, (1-Cyclopropylethyl)amine 51761-72-9P,  
 Cyclopropylmethylketoxime 107855-32-3P 112881-69-3P 112881-76-2P

1033344-64-7P, 1-(3-Chloropyridin-2-yl)-5-(2-furyl)-1H-pyrazole-3-carboxylic acid 1033344-84-1P, 3-[(Benzyloxycarbonyl)amino]-1-(3-chloropyridin-2-yl)-1H-5-pyrazolecarboxylic acid 1033344-87-4P, 3-[(Benzyloxycarbonyl)amino]-1-(3-chloropyridin-2-yl)-5-(2-furyl)-1H-pyrazole 1033407-53-2P 1033407-55-4P 1033407-56-5P, N-[4-Chloro-2-(1-cyclopropylethylcarbamoyl)phenyl]-1-(3-chloropyridin-2-yl)-3-hydroxy-4,5-dihydro-1H-pyrazole-5-carboxamide 1033407-57-6P 1033407-58-7P, 3-Bromo-N-[4-chloro-2-(1-cyclopropylethylcarbamoyl)phenyl]-1-(3-chloropyridin-2-yl)-4,5-dihydro-1H-pyrazole-5-carboxamide 1033407-59-8P, 3-Bromo-N-[4-chloro-2-(1-cyclopropylethylcarbamoyl)phenyl]-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxamide 1033407-60-1P 1033407-61-2P, 2-Amino-5-chloro-N-(1-cyclopropylethyl)benzamide 1033407-63-4P 1033407-64-5P, Pentyl 3-bromo-1-(3-chloropyridin-2-yl)-4,5-dihydro-1H-pyrazole-5-carboxylate 1033407-65-6P, Pentyl 3-bromo-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxylate 1033407-66-7P, Phenyl 3-bromo-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxylate 1033407-67-8P, 2-Amino-3-bromo-5-chloro-N-(1-cyclopropylethyl)benzamide 1033407-69-0P, Ethyl 1-(3-chloropyridin-2-yl)-5-(2-furyl)-4,5-dihydro-1H-pyrazole-3-carboxylate 1033407-70-3P, 3-[(Benzyloxycarbonyl)amino]-1-(3-chloropyridin-2-yl)-1H-5-pyrazolecarboxylic acid phenyl ester 1033407-72-5P, 3-Amino-1-(3-chloropyridin-2-yl)-1H-5-pyrazolecarboxylic acid phenyl ester 1033407-73-6P, Benzyl 3-bromo-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxylate 1033407-75-8P 1033407-76-9P 1033407-78-1P, 5-Chloro-N-(1-cyclopropylethyl)-2-nitrobenzamide  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of anthranilamide compound)

IT 1031756-98-5P, 3-Bromo-N-[2-bromo-4-chloro-6-[[1-(1-cyclopropylethyl)amino]carbonyl]phenyl]-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxamide 1033407-74-7P, 4-Methoxybenzyl 3-bromo-1-(3-chloropyridin-2-yl)-1H-pyrazole-5-carboxylate  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of anthranilamide compound)

L3 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:733566 CAPLUS

DOCUMENT NUMBER: 149:79590

TITLE: Process for preparation of anthranilamide compound by using novel pyrazole compound as intermediate

INVENTOR(S): Koyanagi, Toru; Hisamatsu, Akihiro

PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan

SOURCE: PCT Int. Appl., 59pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2008072743	A1	20080619	WO 2007-JP74166	20071214
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,			

IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,  
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM

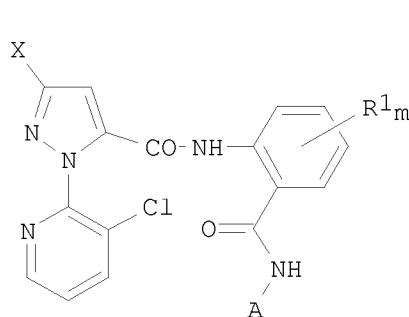
## PRIORITY APPLN. INFO.:

JP 2006-339100 A 20061215  
 JP 2007-128991 A 20070515  
 JP 2007-137551 A 20070524

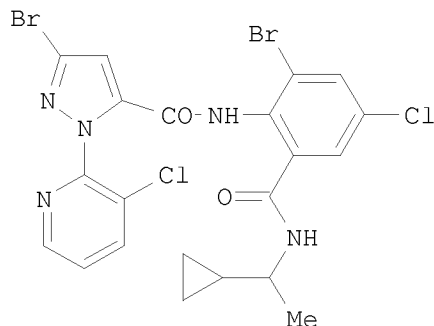
## OTHER SOURCE(S):

MARPAT 149:79590

GI



I



II

AB Disclosed is a method for producing an anthranilamide compound or a salt thereof. Specifically disclosed is a method for producing an anthranilamide compound represented by the formula I [R1 = halo, alkyl, alkenyl, etc.; A = (un)substituted alkyl; X = halo; m = 0-4] or a salt thereof, which is characterized in that a compound represented by the formula I [R1, A and m are defined as above; X = NH2] is diazotized and then reacted with copper halide, copper metal or an alkyl halide. For example, II was provided in a multi-step synthesis starting from the reaction of Et 2-furoylpyruvate with 3-chloro-2-hydrazylpyridine.

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 1031756-98-5P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of anthranilamide compound by using novel pyrazole compound as intermediate)

L3 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:703045 CAPLUS

DOCUMENT NUMBER: 149:53719

TITLE: Process for preparing 2-amino-5-cyanobenzoates by treatment of 2-amino-5-halobenzoates with alkali metal nitriles in the presence of palladium phosphine catalysts.

INVENTOR(S): Bruening, Joerg; Casalnuovo, Albert Loren; Grushin, Vladimir

PATENT ASSIGNEE(S): E. I. du Pont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 50pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

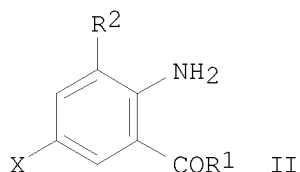
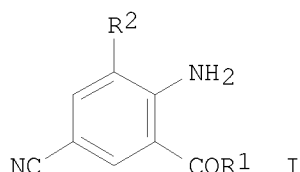
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2008070158	A1	20080612	WO 2007-US25005	20071205
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: US 2006-873058P P 20061206  
 OTHER SOURCE(S): CASREACT 149:53719; MARPAT 149:53719  
 GI



AB Title compds. (I; R<sub>1</sub> = NHR<sub>3</sub>, OR<sub>4</sub>; R<sub>2</sub> = Me, Cl; R<sub>3</sub> = H, alkyl, cyclopropyl, cyclopropylmethyl, methylcyclopropyl; R<sub>4</sub> = H, alkyl; with a proviso); were prepared by treatment of (II; X = Br, Cl; other variables as above) with M<sub>1</sub>CN (M<sub>1</sub> = alkali metal) in the presence of ≥1 ether and nitrile solvent, ≥1 palladium tertiary phosphine catalyst. Thus, 2-amino-5-bromo-N,3-dimethylbenzamide (preparation given), Zn, NaCN, and a catalyst solution prepared from tris(dibenzylideneacetone)dipalladium and tri-tert-butylphosphine were stirred together in THF for 63 h at 25° to give >99% conversion to 2-amino-5-cyano-N,3-dimethylbenzamide.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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RL: IMF (Industrial manufacture); PRPH (Prophetic); SPN (Synthetic preparation); PREP (Preparation)

(preparation of aminocyanobenzoates by treatment of aminohalobenzoates with alkali metal nitriles in the presence of palladium phosphine catalysts)

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1032675-27-6P			

RL: IMF (Industrial manufacture); PRPH (Prophetic); SPN (Synthetic preparation); PREP (Preparation)

(preparation of aminocyanobenzoates by treatment of aminohalobenzoates with alkali metal nitriles in the presence of palladium phosphine catalysts)

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RL: IMF (Industrial manufacture); PRPH (Prophetic); SPN (Synthetic preparation); PREP (Preparation)

(preparation of aminocyanobenzoates by treatment of aminohalobenzoates with alkali metal nitriles in the presence of palladium phosphine catalysts)

L3 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:673452 CAPLUS

DOCUMENT NUMBER: 149:10005

TITLE: Preparation of (heterocyclyl) N-cyanoalkylanthranilamides as insecticides and acaricides

INVENTOR(S): Muehlebach, Michel; Craig, Gerald Wayne

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 91pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

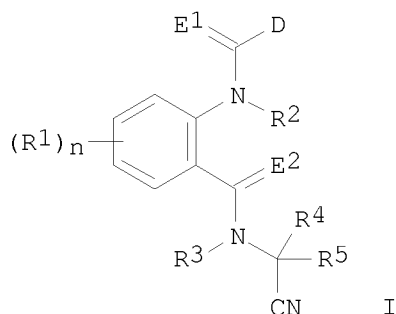
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008064891	A1	20080605	WO 2007-EP10370	20071129
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PRIORITY APPLN. INFO.: EP 2006-24865 A 20061201

OTHER SOURCE(S): MARPAT 149:10005

GI



AB Title compds. [I; D = (substituted) Ph, pyridyl, pyrazolyl, pyrrolyl, pyridyl, pyrimidyl; n = 0-3; R1 = halo, OH, NO<sub>2</sub>, alkyl, alkenyl, alkynyl, cycloalkyl, alkylthio, cycloalkylamino, (substituted) Ph, PhCH<sub>2</sub>, PhO, etc.; R<sub>2</sub>, R<sub>3</sub> = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; E1, E2 = O, S; R<sub>4</sub> = (substituted) alkyl, cycloalkyl; R<sub>5</sub> = (substituted) cycloalkyl, cycloalkylalkyl], were prepared Thus, title compound (II) was prepared in 4 steps from 2-amino-5-chloro-3-methylbenzoic acid, cyclopropyl Me ketone, and 2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazole-3-carbonyl chloride. II and other I at 200 ppm gave >80% control of *Spodoptera littoralis*.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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	1034827-29-6P	1034827-31-0P	1034827-33-2P	
	1034827-36-5P	1034827-38-7P	1034827-41-2P	1034827-44-5P
	1034827-47-8P	1034827-49-0P	1034827-51-4P	1034827-53-6P
	1034827-55-8P	1034827-58-1P	1034827-60-5P	
	1034827-62-7P	1034827-64-9P	1034827-66-1P	
	1034827-69-4P	1034827-71-8P	1034827-73-0P	
	1034827-75-2P	1034827-77-4P	1034827-79-6P	1034827-81-0P
	1034827-83-2P	1034827-85-4P	1034827-87-6P	
	1034827-89-8P	1034827-91-2P	1034827-93-4P	
	1034827-95-6P	1034827-97-8P	1034827-99-0P	
	1034828-01-7P	1034828-03-9P	1034828-05-1P	1034828-07-3P
	1034828-09-5P	1034828-11-9P	1034828-13-1P	1034828-15-3P
	1034828-17-5P	1034828-19-7P	1034828-21-1P	1034828-23-3P
	1034828-25-5P	1034828-27-7P	1034828-29-9P	1034828-31-3P
	1034828-33-5P	1034828-35-7P	1034828-37-9P	1034828-39-1P
	1034828-41-5P	1034828-43-7P	1034828-45-9P	1034828-47-1P
	1034828-49-3P	1034828-51-7P	1034828-53-9P	1034828-55-1P
	1034828-57-3P	1034828-59-5P	1034828-61-9P	1034828-64-2P
	1034828-66-4P	1034828-68-6P	1034828-70-0P	1034828-72-2P
	1034828-74-4P	1034828-76-6P	1034828-78-8P	1034828-80-2P
	1034828-82-4P	1034828-84-6P	1034828-86-8P	1034828-88-0P



1034828-90-4P 1034828-92-6P 1034828-94-8P 1034828-96-0P  
 1034828-98-2P 1034829-00-9P 1034829-02-1P  
 1034829-04-3P 1034829-06-5P 1034829-08-7P  
 1034829-10-1P 1034829-12-3P 1034829-14-5P  
 1034829-16-7P 1034829-18-9P 1034829-20-3P  
 1034829-22-5P 1034829-24-7P 1034829-26-9P  
 1034829-28-1P 1034829-30-5P 1034829-32-7P  
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 1034829-41-8P 1034829-44-1P 1034829-46-3P  
 1034829-48-5P 1034829-50-9P 1034829-52-1P  
 1034829-54-3P 1034829-56-5P 1034829-58-7P  
 1034829-60-1P 1034829-62-3P 1034829-64-5P  
 1034829-66-7P 1034829-68-9P 1034829-70-3P  
 1034829-72-5P 1034829-74-7P 1034829-76-9P  
 1034829-78-1P 1034829-80-5P 1034829-82-7P  
 1034829-84-9P 1034829-86-1P 1034829-88-3P  
 1034829-90-7P 1034829-92-9P 1034829-94-1P  
 1034829-96-3P 1034829-98-5P 1034830-00-6P 1034830-02-8P  
 1034830-04-0P 1034830-06-2P 1034830-08-4P 1034830-10-8P  
 1034830-12-0P 1034830-14-2P 1034830-16-4P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH  
 (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)

(preparation of (heterocyclyl) N-cyanoalkylanthranilamides as insecticides  
 and acaricides)

IT 1034830-18-6P 1034830-20-0P 1034830-22-2P  
 1034830-24-4P 1034830-26-6P 1034830-28-8P  
 1034830-30-2P 1034830-32-4P 1034830-34-6P 1034830-36-8P  
 1034830-38-0P 1034830-40-4P 1034830-42-6P  
 1034830-44-8P 1034830-46-0P 1034830-48-2P  
 1034830-50-6P 1034830-52-8P 1034830-54-0P  
 1034830-56-2P 1034830-58-4P 1034830-60-8P 1034830-62-0P  
 1034830-64-2P 1034830-66-4P 1034830-68-6P 1034830-70-0P  
 1034830-72-2P 1034830-74-4P 1034830-76-6P 1034830-78-8P  
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 1034830-96-0P 1034830-98-2P 1034831-00-9P 1034831-02-1P  
 1034831-04-3P 1034831-06-5P 1034831-08-7P 1034831-11-2P  
 1034831-13-4P 1034831-16-7P 1034831-18-9P 1034831-20-3P  
 1034831-22-5P 1034831-24-7P 1034831-26-9P 1034831-28-1P  
 1034831-30-5P 1034831-32-7P 1034831-34-9P 1034831-36-1P  
 1034831-38-3P 1034831-40-7P 1034831-42-9P 1034831-44-1P  
 1034831-46-3P 1034831-48-5P 1034831-50-9P 1034831-52-1P  
 1034831-54-3P 1034831-56-5P 1034831-58-7P  
 1034831-60-1P 1034831-63-4P 1034831-65-6P  
 1034831-67-8P 1034831-69-0P 1034831-71-4P  
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 1034831-85-0P 1034831-87-2P 1034831-90-7P  
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 1034832-16-0P 1034832-18-2P 1034832-20-6P  
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 1034832-40-0P 1034832-44-4P 1034832-46-6P  
 1034832-48-8P 1034832-50-2P 1034832-52-4P  
 1034832-54-6P 1034832-56-8P 1034832-58-0P 1034832-60-4P

1034832-62-6P	1034832-64-8P	1034832-67-1P	1034832-69-3P
1034832-71-7P	1034832-73-9P	1034832-75-1P	
1034832-77-3P	1034832-79-5P	1034832-81-9P	
1034832-83-1P	1034832-85-3P	1034832-87-5P	
1034832-89-7P	1034832-91-1P	1034832-93-3P	1034832-95-5P
1034832-97-7P	1034832-99-9P	1034833-01-6P	
1034833-03-8P	1034833-05-0P	1034833-07-2P	
1034833-09-4P	1034833-11-8P	1034833-13-0P	
1034833-15-2P	1034833-17-4P	1034833-19-6P	1034833-21-0P
1034833-23-2P	1034833-25-4P	1034833-27-6P	1034833-29-8P
1034833-31-2P	1034833-33-4P	1034833-35-6P	1034833-37-8P
1034833-40-3P	1034833-42-5P	1034833-44-7P	1034833-46-9P
1034833-48-1P	1034833-50-5P	1034833-52-7P	1034833-54-9P
1034833-56-1P	1034833-58-3P	1034833-60-7P	1034833-62-9P
1034833-64-1P	1034833-66-3P	1034833-68-5P	1034833-70-9P
1034833-72-1P	1034833-74-3P	1034833-76-5P	1034833-78-7P
1034833-80-1P	1034833-82-3P	1034833-84-5P	1034833-86-7P
1034833-88-9P	1034833-90-3P	1034833-92-5P	1034833-94-7P
1034833-96-9P	1034833-98-1P	1034834-00-8P	1034834-02-0P
1034834-04-2P	1034834-06-4P	1034834-08-6P	1034834-10-0P
1034834-12-2P	1034834-14-4P	1034834-16-6P	
1034834-18-8P	1034834-20-2P	1034834-23-5P	
1034834-25-7P	1034834-27-9P	1034834-30-4P	
1034834-32-6P	1034834-34-8P	1034834-36-0P	
1034834-38-2P	1034834-40-6P	1034834-42-8P	
1034834-44-0P	1034834-46-2P	1034834-48-4P	
1034834-50-8P	1034834-52-0P	1034834-54-2P	
1034834-56-4P	1034834-58-6P	1034834-60-0P	
1034834-62-2P	1034834-64-4P	1034834-66-6P	
1034834-68-8P	1034834-70-2P	1034834-72-4P	
1034834-74-6P	1034834-76-8P	1034834-78-0P	
1034834-80-4P	1034834-82-6P	1034834-84-8P	
1034834-86-0P	1034834-88-2P	1034834-90-6P	
1034834-92-8P			

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (heterocyclyl) N-cyanoalkylanthranilamides as insecticides and acaricides)

IT	1034834-94-0P	1034834-96-2P	1034834-98-4P	
	1034835-00-1P	1034835-02-3P	1034835-04-5P	
	1034835-06-7P	1034835-08-9P	1034835-10-3P	
	1034835-12-5P	1034835-14-7P	1034835-16-9P	1034835-18-1P
	1034835-20-5P	1034835-22-7P	1034835-24-9P	1034835-26-1P
	1034835-28-3P	1034835-30-7P	1034835-32-9P	
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	1034835-40-9P	1034835-42-1P	1034835-44-3P	1034835-46-5P
	1034835-48-7P	1034835-50-1P	1034835-52-3P	1034835-54-5P
	1034835-56-7P	1034835-58-9P	1034835-60-3P	
	1034835-62-5P	1034835-64-7P	1034835-66-9P	
	1034835-68-1P	1034835-97-6P	1034835-98-7P	1034835-99-8P
	1034836-00-4P	1034836-01-5P	1034836-02-6P	1034836-03-7P
	1034836-04-8P	1034836-05-9P	1034836-06-0P	1034836-07-1P
	1034836-08-2P	1034836-09-3P	1034836-10-6P	1034836-11-7P
	1034836-12-8P	1034836-13-9P	1034836-14-0P	1034836-15-1P
	1034836-16-2P	1034836-17-3P	1034836-18-4P	1034836-19-5P
	1034836-20-8P	1034836-21-9P	1034836-22-0P	1034836-23-1P
	1034836-24-2P	1034836-25-3P	1034836-26-4P	1034836-28-6P
	1034836-29-7P	1034836-30-0P	1034836-31-1P	1034836-32-2P
	1034836-33-3P	1034836-34-4P	1034836-35-5P	1034836-37-7P

1034836-38-8P 1034836-39-9P 1034836-40-2P 1034836-41-3P  
 1034836-42-4P 1034836-43-5P 1034836-44-6P 1034836-45-7P  
 1034836-47-9P 1034836-49-1P 1034836-50-4P  
 1034836-51-5P 1034836-52-6P 1034836-53-7P  
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 1034836-77-5P 1034836-78-6P 1034836-79-7P  
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 1034836-86-6P 1034836-88-8P 1034836-90-2P  
 1034836-92-4P 1034836-94-6P 1034836-96-8P  
 1034836-98-0P 1034837-00-7P 1034837-02-9P 1034837-04-1P  
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 1034837-14-3P 1034837-21-2P 1034837-24-5P  
 1034837-26-7P 1034837-28-9P 1034837-30-3P 1034837-32-5P  
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 1034837-43-8P 1034837-45-0P 1034837-47-2P  
 1034837-49-4P 1034837-52-9P 1034837-54-1P 1034837-56-3P  
 1034837-58-5P 1034837-60-9P 1034837-62-1P 1034837-64-3P  
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 1034837-90-5P 1034837-92-7P 1034837-94-9P 1034837-96-1P  
 1034837-98-3P 1034838-00-0P 1034838-02-2P 1034838-04-4P  
 1034838-06-6P 1034838-09-9P 1034838-11-3P 1034838-13-5P  
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 1034838-23-7P 1034838-25-9P 1034838-27-1P 1034838-29-3P  
 1034838-31-7P 1034838-33-9P 1034838-35-1P 1034838-37-3P  
 1034838-39-5P 1034838-41-9P 1034838-43-1P 1034838-45-3P  
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 1034839-17-2P 1034839-19-4P 1034839-21-8P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH  
 (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)

(preparation of (heterocyclyl) N-cyanoalkylanthranilamides as insecticides  
 and acaricides)

IT 1034839-23-0P 1034839-25-2P 1034839-27-4P  
 1034839-29-6P 1034839-31-0P 1034839-33-2P  
 1034839-35-4P 1034839-37-6P 1034839-39-8P  
 1034839-41-2P 1034839-43-4P 1034839-45-6P  
 1034839-47-8P 1034839-49-0P 1034839-51-4P 1034839-53-6P  
 1034839-55-8P 1034839-57-0P 1034839-59-2P 1034839-61-6P  
 1034839-62-7P 1034839-64-9P 1034839-67-2P  
 1034839-69-4P 1034839-71-8P 1034839-73-0P  
 1034839-75-2P 1034839-77-4P 1034839-79-6P

1034839-81-0P	1034839-83-2P	1034839-85-4P	1034839-87-6P
1034839-89-8P	1034839-91-2P	1034839-93-4P	
1034839-95-6P	1034839-97-8P	1034839-99-0P	
1034840-01-1P	1034840-03-3P	1034840-05-5P	
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1034840-15-7P	1034840-17-9P	1034840-19-1P	1034840-21-5P
1034840-23-7P	1034840-25-9P	1034840-27-1P	1034840-29-3P
1034840-31-7P	1034840-33-9P	1034840-35-1P	1034840-37-3P
1034840-39-5P	1034840-41-9P	1034840-43-1P	1034840-45-3P
1034840-47-5P	1034840-49-7P	1034840-51-1P	1034840-53-3P
1034840-55-5P	1034840-57-7P	1034840-59-9P	1034840-61-3P
1034840-63-5P	1034840-65-7P	1034840-67-9P	1034840-69-1P
1034840-71-5P	1034840-73-7P	1034840-75-9P	1034840-77-1P
1034840-79-3P	1034840-81-7P	1034840-83-9P	1034840-85-1P
1034840-87-3P	1034840-89-5P	1034840-91-9P	1034840-93-1P
1034840-95-3P	1034840-97-5P	1034840-99-7P	1034841-01-4P
1034841-04-7P	1034841-07-0P	1034841-10-5P	
1034841-13-8P	1034841-16-1P	1034841-20-7P	
1034841-24-1P	1034841-28-5P	1034841-32-1P	
1034841-36-5P	1034841-40-1P	1034841-44-5P	
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1034841-84-3P	1034841-88-7P	1034841-92-3P	
1034841-96-7P	1034842-00-6P	1034842-04-0P	
1034842-08-4P	1034842-12-0P	1034842-15-3P	
1034842-19-7P	1034842-23-3P	1034842-27-7P	
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1034842-44-8P	1034842-48-2P	1034842-52-8P	
1034842-56-2P	1034842-60-8P	1034842-64-2P	
1034842-68-6P	1034842-72-2P	1034842-76-6P	
1034842-80-2P	1034842-84-6P	1034842-88-0P	
1034842-92-6P	1034842-96-0P	1034843-00-9P	1034843-03-2P
1034843-07-6P	1034843-10-1P	1034843-13-4P	1034843-15-6P
1034843-18-9P	1034843-21-4P	1034843-24-7P	
1034843-27-0P	1034843-30-5P	1034843-33-8P	
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1034843-45-2P	1034843-48-5P	1034843-51-0P	1034843-54-3P
1034843-57-6P	1034843-60-1P	1034843-63-4P	
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1034843-75-8P	1034843-77-0P	1034843-80-5P	
1034843-83-8P	1034843-86-1P	1034843-88-3P	1034843-91-8P
1034843-94-1P	1034843-96-3P	1034843-99-6P	1034844-02-4P
1034844-05-7P	1034844-08-0P	1034844-11-5P	1034844-14-8P
1034844-17-1P	1034844-20-6P	1034844-23-9P	1034844-26-2P
1034844-29-5P	1034844-32-0P	1034844-35-3P	1034844-38-6P
1034844-41-1P	1034844-44-4P	1034844-47-7P	1034844-49-9P
1034844-53-5P	1034844-56-8P	1034844-59-1P	1034844-61-5P
1034844-64-8P	1034844-68-2P	1034844-72-8P	1034844-77-3P
1034844-80-8P	1034844-84-2P	1034844-88-6P	1034844-93-3P
1034844-97-7P	1034845-01-6P	1034845-05-0P	1034845-09-4P
1034845-13-0P	1034845-16-3P	1034845-19-6P	1034845-22-1P
1034845-25-4P	1034845-28-7P	1034845-31-2P	1034845-33-4P
1034845-36-7P	1034845-39-0P	1034845-42-5P	
1034845-45-8P	1034845-47-0P	1034845-50-5P	
1034845-53-8P	1034845-56-1P	1034845-59-4P	
1034845-62-9P	1034845-65-2P	1034845-68-5P	
1034845-71-0P	1034845-74-3P	1034845-77-6P	
1034845-80-1P	1034845-83-4P		

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH

(Prophetic); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of (heterocyclyl) N-cyanoalkylanthranilamides as insecticides and acaricides)

IT 1034845-86-7P 1034845-89-0P 1034845-93-6P  
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1034847-82-9P 1034847-85-2P 1034847-88-5P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of (heterocyclyl) N-cyanoalkylanthranilamides as insecticides and acaricides)

IT 1029975-19-6P 1029975-21-0P  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of (heterocyclyl) N-cyanoalkylanthranilamides as insecticides and acaricides)

IT 1029975-06-1P 1029975-08-3P 1029975-10-7P  
1029975-12-9P 1029975-14-1P 1029975-16-3P  
1029975-23-2P 1029975-25-4P 1029975-27-6P  
1029975-29-8P 1029975-31-2P 1029975-33-4P  
1029975-35-6P 1029975-37-8P 1029975-39-0P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (heterocyclyl) N-cyanoalkylanthranilamides as insecticides and acaricides)

L3 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:221501 CAPLUS

DOCUMENT NUMBER: 148:231873

TITLE: Crop vigor and yield enhancement and  
arthropod-vectored plant disease disruption by  
carboxamide derivatives

INVENTOR(S): Annan, Isaac Billy; Marcon, Paula Cristina Rodrigues  
Gouveia; Portillo, Hector Eduardo

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 23pp.

CODEN: PIXXD2

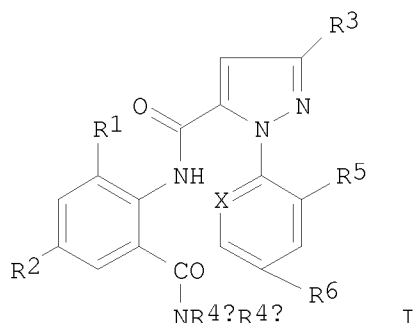
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008021152	A2	20080221	WO 2007-US17673	20070808
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRIORITY APPLN. INFO.:			US 2006-836892P	P 20060809
			US 2006-837059P	P 20060810
			US 2006-850454P	P 20061010
OTHER SOURCE(S):	MARPAT 148:231873			
GI				



AB	The anthranilamide anthropodicides I (X = N, CF, CCl, CBr or CI; R1 = Me, Cl, Br or F; R2 = H, F, Cl, Br or CN; R3 = F, Cl, Br, Cl-4 haloalkyl or haloalkoxy; R4a = H, Cl-4 alkyl cyclopropylmethyl or 1-cyclopropylethyl; R4b = H or Me; R5, r6 = H, F, Cl or Br) or their N-oxides, as well as phthalic acid derivs. (Markush given) enhance crop vigor and crop yield and disrupt infectious disease transmission by arthropod pests.				
IT	272451-65-7	438450-41-0	500008-00-4	500008-44-6	500008-45-7
	736994-60-8	736994-63-1	736995-23-6	871238-02-7	
	871238-03-8	871238-04-9	882401-50-5	886583-54-6	
	886583-69-3				
	RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (crop vigor and yield enhancement and arthropod-vectored plant disease disruption by)				

L3 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2008:91157 CAPLUS  
DOCUMENT NUMBER: 148:191926  
TITLE: Process for making 3-substituted 2-amino-5-halobenzamides  
INVENTOR(S): Davis, Richard Frank; Shapiro, Rafael; Taylor, Eric Deguyon  
PATENT ASSIGNEE(S): E. I. du Pont de Nemours and Company, USA  
SOURCE: PCT Int. Appl., 38pp.

CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008010897	A2	20080124	WO 2007-US14972	20070627
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: US 2006-831781P P 20060719  
 OTHER SOURCE(S): CASREACT 148:191926; MARPAT 148:191926  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Disclosed is a method for preparing I (R1 = H, alkyl, cyclopropyl, cyclopropylmethyl, or methylcyclopropyl; R2 = Me or Cl; X = Cl or Br) by ring opening of II with R1-NH2 in the presence of a carboxylic acid and a method for preparing II by cyclization of III (R3 = (un)substituted alkyl or alkenyl) with phosphorus tribromide. Also disclosed is a method for preparing known insecticides IV (R4 = Cl, Br, CF3, OCF2H or OCH2CF3; Z = CR7 or N; R5 = F, Cl or Br; R6 = H, F or Cl; R7 = H, F, Cl or Br) from I.

IT	362639-17-6P	362639-26-7P	362639-77-8P	362639-78-9P	362639-79-0P
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1006622-67-8P	1006622-68-9P	1006622-69-0P	1006622-70-3P
1006622-71-4P	1006622-72-5P	1006622-73-6P	1006622-74-7P

RL: PRPH (Prophetic); SPN (Synthetic preparation); PREP (Preparation)

(preparation of aminoarylcarboxamides via PBr<sub>3</sub> induced cyclization of carboxamidobenzoic acids followed by ring opening with alkyl amines)

IT	1006622-75-8P	1006622-76-9P	1006622-77-0P	1006622-78-1P
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	1006622-87-2P	1006622-89-4P	1006622-90-7P	1006622-92-9P
	1006622-93-0P	1006622-94-1P	1006622-95-2P	1006622-96-3P
	1006622-97-4P	1006622-98-5P	1006622-99-6P	1006623-00-2P
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	1006623-05-7P	1006623-06-8P	1006623-07-9P	1006623-08-0P
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	1006623-65-9P	1006623-66-0P	1006623-67-1P	1006623-68-2P
	1006623-70-6P	1006623-71-7P	1006623-72-8P	1006623-73-9P



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1006623-82-0P	1006623-83-1P	1006623-84-2P	1006623-85-3P
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1006625-14-4P	1006625-15-5P	1006625-16-6P	1006625-17-7P
1006625-18-8P			

RL: PRPH (Prophetic); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of aminoarylcarboxamides via PBr<sub>3</sub> induced cyclization of  
 carboxamidobenzoic acids followed by ring opening with alkyl amines)

IT	1006625-19-9P	1006625-20-2P	1006625-21-3P	1006625-22-4P
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1006627-56-0P	1006627-58-2P	1006627-60-6P	1006627-61-7P
1006627-63-9P	1006627-64-0P	1006627-66-2P	1006627-68-4P
1006627-69-5P			

RL: PRPH (Prophetic); SPN (Synthetic preparation); PREP (Preparation)  
(preparation of aminoarylcarboxamides via PBr<sub>3</sub> induced cyclization of  
carboxamidobenzoic acids followed by ring opening with alkyl amines)

L3 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1278752 CAPLUS

DOCUMENT NUMBER: 147:481495

TITLE: Use of carboxamide derivatives for disrupting the  
reproductive performance of arthropods

INVENTOR(S): Annan, Isaac Billy; Flexner, John Lindsey; Marcon,  
Paula Cristina Rodrigues Gouveia; Portillo, Hector  
Eduardo

PATENT ASSIGNEE(S): E. I. Du Pont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 34pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

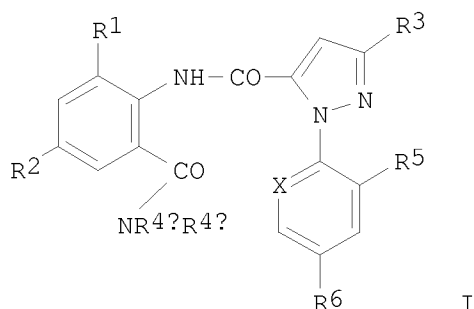
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007126636	A2	20071108	WO 2007-US6929	20070320
WO 2007126636	A3	20080320		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,				
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,				

10/589,782

GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,  
KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK,  
MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,  
RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,  
TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,  
GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

AU 2007243792 A1 20071108 AU 2007-243792 20070320  
PRIORITY APPLN. INFO.: US 2006-787753P P 20060331  
WO 2007-US6929 W 20070320

OTHER SOURCE(S): MARPAT 147:481495  
GI



AB The carboxamide derivs. I (X = n, CF, CCl, CBr or Cl; R1 = Me, Cl, Br or F; R2 = H, F, Cl, Br or CN; R3 = F, Cl, Br, haloalkyl or haloalkoxy; R4a = H, alkyl, cyclopropylmethyl or 1-cyclopropylethyl; R4b = H or Me; R5, R6 = H, F, Cl or Br), their N-oxides and salts.

IT 272451-65-7 438450-41-0 500008-00-4 500008-44-6 500008-45-7  
736994-60-8 736994-63-1 736995-23-6 871238-02-7  
871238-03-8 871238-04-9 882401-50-5 886583-54-6  
886583-69-3

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(use of carboxamide derivs. for disrupting the reproductive performance  
of arthropods)

L3 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:1120573 CAPLUS

DOCUMENT NUMBER: 145:455006

TITLE: Preparation of cyanoanthranilamides as insecticides  
and acaricides

INVENTOR(S): Jeanguenat, Andre; O'Sullivan, Anthony; Muehlebach,  
Michel; Trah, Stephan; Hall, Roger Graham

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 100pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

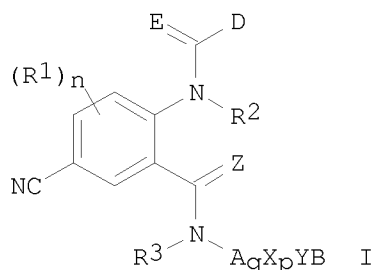
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2006111341 A1 20061026 WO 2006-EP3504 20060418  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,  
MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,  
SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,  
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CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM  
AU 2006237147 A1 20061026 AU 2006-237147 20060418  
CA 2605276 A1 20061026 CA 2006-2605276 20060418  
EP 1871760 A1 20080102 EP 2006-724373 20060418  
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR  
MX 200712758 A 20080114 MX 2007-12758 20071012  
IN 2007DN07936 A 20071109 IN 2007-DN7936 20071015  
US 20080182750 A1 20080731 US 2007-911887 20071018  
KR 2008005438 A 20080111 KR 2007-727026 20071120  
CN 101184747 A 20080521 CN 2006-80018312 20071126  
PRIORITY APPLN. INFO.: GB 2005-7989 A 20050420  
GB 2005-25060 A 20051208  
GB 2005-28060 A 20051208  
WO 2006-EP3504 W 20060418

OTHER SOURCE(S): MARPAT 145:455006  
GI



AB Title compds. [I; E, Z = O, S; A = (substituted) alkylene, alkenylene, alkynylene, bivalent mono- or bicyclic ring; X = O, NH, alkylimino; Y = (substituted) mono- or bicyclic ring; p, q = 0, 1; B = (substituted) 3-4 membered (heterocyclic) ring; R1 = halo, NO2, cyano, OH, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, (substituted) Ph, PhCH2, PhO, etc.; n = 0-3; R2, R3 = H, alkyl, alkenyl, alkynyl, substituted cycloalkyl; D = (substituted) Ph, pyridyl, pyrrolyl, pyrazolyl, pyrimidyl], were prepared Thus, 2-[2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazol-3-yl]-8-methyl-4-oxo-4H-benzo[d][1,3]oxazine-6-carbonitrile, bicyclop-1-ylamine hydrochloride (preparation given), and Et3N were heated together in THF at 60° for 8 h to give 2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid [2-(bicyclop-1-ylcarbonyl)-4-cyano-6-methylphenyl]amide. The latter at 400 ppm showed >80% activity against *Cydia pomonella*.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT  
IT 1042422-55-8 1042425-11-5 1042425-51-3 1042426-12-9 1042426-58-3

1042426-81-2	1042426-95-8	1045354-09-3	1045354-10-6	1045354-11-7
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1045356-39-5	1045356-40-8			

RL: PRPH (Prophetic)

(Preparation of cyanoanthranilamides as insecticides and acaricides)

L3 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:558556 CAPLUS

DOCUMENT NUMBER: 145:62886

TITLE: Anthranilamide derivatives as insecticides, and their preparation, pesticidal compositions and formulation

INVENTOR(S): Jeanguenat, Andre; O'Sullivan, Anthony Cornelius

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 136 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006061200	A1	20060615	WO 2005-EP13103	20051207
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005313557	A1	20060615	AU 2005-313557	20051207
EP 1819695	A1	20070822	EP 2005-815427	20051207
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101098864	A	20080102	CN 2005-80046228	20051207
JP 2008523008	T	20080703	JP 2007-544809	20051207
US 20080146552	A1	20080619	US 2007-720571	20070531
IN 2007DN04178	A	20070831	IN 2007-DN4178	20070601
MX 200706898	A	20070626	MX 2007-6898	20070608
KR 2007089933	A	20070904	KR 2007-713035	20070608
PRIORITY APPLN. INFO.:			GB 2004-27008	A 20041209
			WO 2005-EP13103	W 20051207
OTHER SOURCE(S):		CASREACT 145:62886; MARPAT 145:62886		
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Compds. of formula I, and the agrochem. acceptable salts and all stereoisomers and tautomeric forms of the compds. of formula I can be used as agrochem. active ingredients and can be prepared in a manner known per se. Several examples on formulation of compds. of formula I is also disclosed in this invention. Compds. of formula I wherein E1 and W2 are independently O or S; R1 is halo, CN, NO2, OH, C1-6 (halo)alkyl, C2-6 (halo)alkenyl, C2-6 (halo)alkynyl, C3-6 (halo)cycloalkyl, C1-4 (halo)alkoxy, C1-4 (halo)alkylthio, C1-4 (halo)alkylsulfinyl, C1-4 (halo)alkylsulfonyl, C1-4 alkylamino, C2-4 dialkylamino, C3-6 cycloalkylamino, etc.; n is 0, 1, 2, 3, or 4; R2 and R3 are independently H, (un)substituted C1-6 alkyl, (un)substituted C2-6 alkenyl, (un)substituted C2-6 alkynyl, or (un)substituted C3-6 cycloalkyl; D is (un)substituted Ph, (un)substituted pyridyl, (un)substituted pyrazole, (un)substituted pyrrole, or (un)substituted pyrimidine; Y1a and Y2 are independently (un)substituted C1-6 alkylene, (un)substituted C2-6 alkenylene, or (un)substituted C3-6 alkynylene, etc.; G is a bond, O, N-Z1, S or G1-C(=G2)-G3; G1 and G3 are independently a bond, O, S, or NZ2; G2 is O, S or NZ3; Z and Z1-Z3 are independently H, C1-6 (halo)alkyl, C2-6 (halo)alkenyl, C2-6 (halo)alkynyl, C3-6 (halo)cycloalkyl, C1-4 (halo)alkoxy, C1-4 (halo)alkylthio, etc.; Y3 is H, halo or C1-6

(halo)alkyl; Y1b is a bond, or (un)substituted C1-6 alkylene, (un)substituted C2-6 alkenylene, or (un)substituted C3-6 alkynylene; and their tautomers, agrochem. utilizable salts and auxiliary are claimed. Example compound II was prepared by amidation of 6-chloro-2-[2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazol-3-yl]-8-methylbenzo[d][1,3]oxazin-4-one with 1-amino-2-propanol; the resulting 2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazol-3-carboxylic acid [4-chloro-2-(2-hydroxypropylcarbonyl)-6-methylphenyl]amide underwent substitution with thioacetic acid to give thioacetic acid S-[2-(5-chloro-2-[[2-(3-chloropyridin-2-yl)-5-trifluoromethyl-2H-pyrazole-3-carbonyl]amino]-3-methylbenzoylamino)-1-methylethyl] ester, which underwent deacetylation and methylation to give the corresponding Me thio ether, which underwent oxidation to give the corresponding sulfoxide, which reacted with trifluoroacetamide to give the corresponding N-trifluoroacetylated sulfoximide, which underwent deacetylation to give compound II. All the invention compds. were evaluated for their insecticidal activity. Some of the tested compds. showed good activity against *Aphis craccivora*, *Diabrotica balteata*, *Heliothis virescens* (application to foliar and egg), *Myzus persicae* (foliar and systemic application), *Plutella xylostella* and *Spodoptera littoralis*.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 891195-04-3P 891195-05-4P 891195-06-5P 891195-07-6P 891195-08-7P  
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 891195-38-3P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(agrochem. candidate; preparation of anthranilamide derivs. as insecticides)

L3 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:496102 CAPLUS

DOCUMENT NUMBER: 144:462625

TITLE: Preparation of anthranilamide derivative insecticides and acaricides

INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin; Taggi, Andrew Edmund; Bereznak, James Francis

PATENT ASSIGNEE(S): E.I. Dupont De Nemours and Co., USA

SOURCE: PCT Int. Appl., 97 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

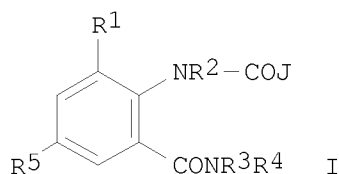
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006055922	A2	20060526	WO 2005-US42196	20051118
WO 2006055922	A3	20061221		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,			

SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,  
 VN, YU, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM  
 AU 2005306363 A1 20060526 AU 2005-306363 20051118  
 CA 2585378 A1 20060526 CA 2005-2585378 20051118  
 EP 1812421 A2 20070801 EP 2005-851952 20051118  
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,  
 BA, HR, MK, YU  
 CN 101061103 A 20071024 CN 2005-80039548 20051118  
 JP 2008520724 T 20080619 JP 2007-543368 20051118  
 IN 2007DN03224 A 20070831 IN 2007-DN3224 20070430  
 KR 2007086280 A 20070827 KR 2007-713584 20070615  
 PRIORITY APPLN. INFO.: US 2004-629120P P 20041118  
 US 2005-689414P P 20050610  
 WO 2005-US42196 W 20051118  
 OTHER SOURCE(S): MARPAT 144:462625  
 GI



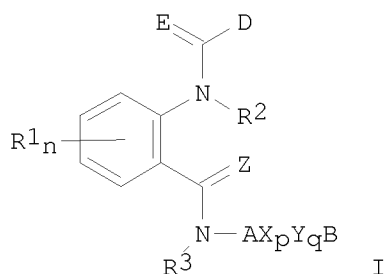
- AB The anthranilamide derivs. I and their geometric and stereoisomers, N-oxides, and salts [J = (un)substituted Ph or N-containing heterocyclyl; R<sub>1</sub> = alkyl alkenyl, alkynyl, etc.; R<sub>2</sub> = alkylcarbonyl, alkoxycarbonyl or (di)alkylaminocarbonyl; R<sub>3</sub> = (cyclo)alkyl, alkenyl, alkynyl, alkoxy, etc.; R<sub>4</sub> = (un)substituted alkylcycloalkyl, alkenylcycloalkyl, alkynylcycloalkyl, cycloalkylalkyl, cycloalkylalkenyl, cycloalkylalkynyl, cycloalkenylalkyl or alkylcycloalkenyl, oxiranylalkyl, thiranylalkyl, oxetanylalkyl, thietanylalkyl, 3-oxetanyl or 3-thietanyl; R<sub>5</sub> = (cyclo)alkyl, haloalkyl, alkenyl alkynyl, etc.] are prepared as pesticides for controlling invertebrate pests, specifically insecticides and acaricides.
- IT 736995-23-6P 882401-50-5P 886583-28-4P  
 886583-29-5P 886583-30-8P 886583-31-9P 886583-32-0P 886583-33-1P  
 886583-34-2P 886583-35-3P 886583-36-4P 886583-37-5P 886583-38-6P  
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 886583-58-0P 886583-59-1P 886583-69-3P  
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation as insecticide and acaricides)
- IT 886583-65-9 886583-66-0 886583-67-1  
 886583-68-2  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)



(synergistic insecticide and acaricide)

L3 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:367128 CAPLUS  
 DOCUMENT NUMBER: 144:364548  
 TITLE: Preparation of anthranilamide derivative acaricides  
 and insecticides  
 INVENTOR(S): O'Sullivan, Anthony Cornelius; Hughes, Dave;  
 Jeanguenat, Andre; Muehlebach, Michel; Loiseleur,  
 Olivier  
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited  
 SOURCE: PCT Int. Appl., 152 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006040113	A2	20060420	WO 2005-EP10891	20051010
WO 2006040113	A3	20060914		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2005293801	A1	20060420	AU 2005-293801	20051010
CA 2580419	A1	20060420	CA 2005-2580419	20051010
EP 1802611	A2	20070704	EP 2005-800574	20051010
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CN 101061110	A	20071024	CN 2005-80039682	20051010
JP 2008515844	T	20080515	JP 2007-535114	20051010
IN 2007DN02167	A	20070803	IN 2007-DN2167	20070320
MX 200703908	A	20070521	MX 2007-3908	20070330
KR 2007063536	A	20070619	KR 2007-708249	20070411
PRIORITY APPLN. INFO.:			GB 2004-22556	A 20041011
			WO 2005-EP10891	W 20051010
OTHER SOURCE(S):	CASREACT 144:364548; MARPAT 144:364548			
GI				



AB The anthranilamides I [E, Z = O or S; A, Y = alkylene, alkenylene, alkynylene, etc.; X = O, NH or alkyl-substituted NH; B = (un)substituted ring; D = (un)substituted Ph, pyridyl, pyrazolyl, etc.; R1 = amino, formyl, cyanoalkenyl, etc.; R2, R3 = H, (un)substituted alkyl, alkenyl, cycloalkyl, etc.; n = 0, 1-4; p, q = 0 or 1] and I salts, stereoisomers and tautomers are prepared as acaricides and insecticides.

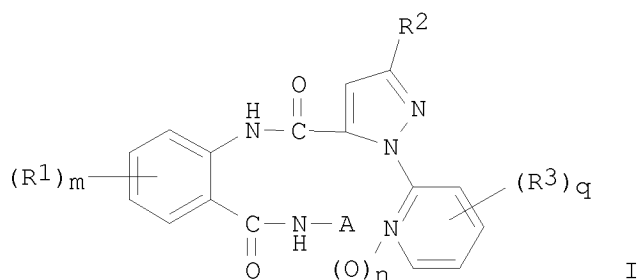
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 882402-00-8P 882402-01-9P 882402-02-0P 882402-03-1P  
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 882402-08-6P 882402-09-7P 882402-10-0P  
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation as acaricide and insecticide)

L3 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:902883 CAPLUS  
 DOCUMENT NUMBER: 143:229846  
 TITLE: Preparation of anthranilamides as pesticides  
 INVENTOR(S): Koyanagi, Toru; Morita, Masayuki; Nakamoto, Kenichi; Hisamatsu, Akihiro  
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan  
 SOURCE: PCT Int. Appl., 52 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005077934 A1 20050825 WO 2005-JP2351 20050216  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
JP 2006131607 A 20060525 JP 2005-33829 20050210  
JP 2006131608 A 20060525 JP 2005-33830 20050210  
AU 2005212068 A1 20050825 AU 2005-212068 20050216  
CA 2553715 A1 20050825 CA 2005-2553715 20050216  
EP 1717237 A1 20061102 EP 2005-710251 20050216  
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CN 1918144 A 20070221 CN 2005-80004523 20050216  
BR 2005007762 A 20070710 BR 2005-7762 20050216  
IN 2006KN01945 A 20070518 IN 2006-KN1945 20060711  
MX 2006PA09360 A 20061009 MX 2006-PA9360 20060817  
US 20070129407 A1 20070607 US 2006-589782 20060817  
PRIORITY APPLN. INFO.: JP 2004-41295 A 20040218  
JP 2004-133722 A 20040428  
JP 2004-261507 A 20040908  
JP 2004-295778 A 20041008  
WO 2005-JP2351 W 20050216  
OTHER SOURCE(S): MARPAT 143:229846  
GI



AB The title anthranilamides, i.e. N-(2-aminocarbonylphenyl)-1-(2-pyridyl)-1-H-pyrazole-5-carboxamide derivs. represented by the general formula (I) or salts thereof [wherein R1 = halogeno, alkyl, haloalkyl, alkenyl, haloalkenyl, alkynyl, haloalkynyl, alkoxy, haloalkoxy, alkylcarbonyl, haloalkylcarbonyl, alkoxy carbonyl, haloalkoxy carbonyl, (un)substituted phenoxycarbonyl, NO<sub>2</sub>, CHO; R2, R3 = halogeno, alkyl, haloalkyl, alkoxy, haloalkoxy, cyano; A = Y-substituted alkyl (Y = C3-4 cycloalkyl optionally substituted by ≥1 groups selected from halogeno, alkyl, and haloalkyl); n = 0,1; q = 0-4; provided that R1 is F, Cl, Br, or Me substituted at 2-position of the benzene ring and another R1 is halogeno substituted at 4-position of the benzene ring, the 4-halogeno group is F or Cl] are prepared. They are useful as pesticides, in particular insecticides, acaricides, nematocides, and parasiticides. Thus, 1.49 g

Et3N was slowly added dropwise to a solution of 0.8 g cyclopropylmethylamine hydrochloride in 40 mL THF, stirred at room temperature for 30 min, slowly treated dropwise with a solution of 1 g 2-[1-(3-chloro-2-pyridyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one in 10 mL THF, and refluxed for 4 h to give, after workup and silica gel chromatog., 0.54 g N-[6-[(cyclopropylmethyl)amino]carbonyl]-2-methylphenyl]-1-(3-chloro-2-pyridyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (II). II at 3.1 ppm controlled 2-nd to 3-rd instar larvae of Spodoptera litura on cabbage leaves.

REFERENCE COUNT: 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 862995-50-4P 862995-51-5P 862995-52-6P  
 862995-53-7P 862995-54-8P 862995-55-9P  
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RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of anthranilamides as pesticides such as insecticides, acaricides, nematocides, and parasitocides)

L3 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:648522 CAPLUS

DOCUMENT NUMBER: 141:190786

TITLE: Preparation of cyano anthranilamide insecticides

INVENTOR(S): Hughes, Kenneth Andrew; Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin

PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

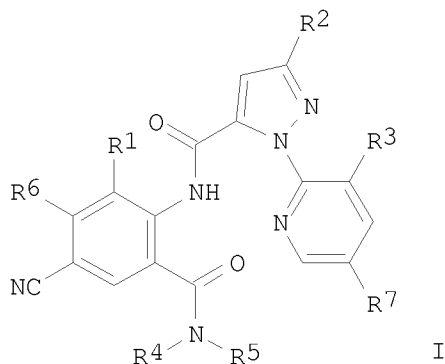
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067528	A1	20040812	WO 2004-US3568	20040121
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
AU 2004207848	A1	20040812	AU 2004-207848	20040121
CA 2512242	A1	20040812	CA 2004-2512242	20040121
EP 1599463	A1	20051130	EP 2004-704148	20040121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
MD 2005000219	A	20051130	MD 2005-219	20040121
BR 2004006709	A	20051220	BR 2004-6709	20040121
JP 3764895	B1	20060412	JP 2005-518229	20040121
JP 2006515602	T	20060601		

CN 1829707	A	20060906	CN 2004-80002991	20040121
ZA 2005005310	A	20060927	ZA 2005-5310	20040121
NZ 541112	A	20080131	NZ 2004-541112	20040121
EG 23536	A	20060419	EG 2004-49	20040127
JP 2006028159	A	20060202	JP 2005-148184	20050520
JP 3770500	B2	20060426		
JP 2006290862	A	20061026	JP 2005-148201	20050520
US 20060111403	A1	20060525	US 2005-540966	20050629
US 7247647	B2	20070724		
MX 2005PA07924	A	20050930	MX 2005-PA7924	20050726
KR 2007036196	A	20070402	KR 2007-706234	20070319
US 20070264299	A1	20071115	US 2007-811105	20070608
PRIORITY APPLN. INFO.:			US 2003-443256P	P 20030128
			JP 2005-518229	A3 20040121
			WO 2004-US3568	W 20040121
			KR 2005-700059	A3 20050103
			US 2005-540966	A3 20050629

OTHER SOURCE(S):                    MARPAT 141:190786  
GI



AB The title compds. [I; R1 = Me, Cl, Br, F; R2 = F, Cl, Br, haloalkyl or haloalkoxy; R3 = F, Cl, Br; R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, each optionally substituted with one substituent selected from the group consisting of halo, CN, SMe S(O)Me, S(O)2Me and OMe; R5 = H, Me; R6 = H, F, Cl; R7 = H, F, Cl], useful for controlling an invertebrate pest, were prepared E.g., a multi-step synthesis of compound I [R1 = Me; R2 = CF3; R3 = Cl; R4, R5 = H], was given. The compds. I were tested in various biol. tests (data given). This invention also pertains to a composition for controlling an invertebrate pest comprising a biol. effective amount of a compound I, an N-oxide thereof or a suitable salt of the compound I and at least one addnl. component selected from the group consisting of a surfactant, a solid diluent and a liquid diluent.

IT 500011-03-0P 736994-59-5P 736994-60-8P 736994-61-9P 736994-62-0P  
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10/589,782

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RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN  
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(preparation of cyano anthranilamide insecticides)

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